## **AMENDMENTS TO THE CLAIMS**

Please replace all prior versions of the claims with the following claim listing:

## Claims:

1. (Original) A multi-channel surround sound expansion method comprising the steps of:

reading a stereo sound signal including a left sound signal and a right sound signal;

expanding said stereo sound signal into a Front L channel, a Front R channel, a Front M channel, a Rear L channel and a Rear R channel sound signals; performing a sound reverberation operation on sound signals of said Front L channel and said Front R channel or said Rear L channel and said Rear R channel to generate sound with echo/reverberation;

delaying said Rear L channel and Rear R channel sound signals for a first time value; and

advancing said Front M channel sound signal for a second time value.

- 2. (Original) The multi-channel surround sound expansion method as claimed in claim 1, wherein said step of expanding said stereo sound signal into multi-channel sound signals is accomplished by using a Hafler technique to output said left sound signal directly to said Front L channel, output said right sound signal to said Front R channel, output said left sound signal minus said right sound signal to said Rear L channel, and output said right sound signal minus said left sound signal to said Rear R channel.
- 3. (Original) The multi-channel surround sound expansion method as claimed in claim 2, wherein said Front L channel and Front R channel sound signals are sound signals having low-frequency components filtered out through a high-pass filtering operation.

4. (Original) The multi-channel surround sound expansion method as claimed in claim 3, wherein the frequency response of said high-pass filtering operation is about -10 dB at 6 KHz.

- 5. (Original) The multi-channel surround sound expansion method as claimed in claim 2, wherein said Front M channel sound signal is a sound signal having high-frequency components filtered out through a low-pass filtering operation.
- 6. (Original) The multi-channel surround sound expansion method as claimed in claim 5, wherein the frequency response of said low-pass filtering operation is about -30 dB at 6 KHz.
- 7. (Original) The multi-channel surround sound expansion method as claimed in claim 2, wherein said Rear L channel and Rear R channel sound signals are sound signals having high-frequency components filtered out through a low-pass filtering operation.
- 8. (Original) The multi-channel surround sound expansion method as claimed in claim 7, wherein the frequency response of said low-pass filtering operation is about -30 dB at 10 KHz.
- 9. (Original) The multi-channel surround sound expansion method as claimed in claim 1, wherein said step of expanding said stereo sound signal into multi-channel sound signals is accomplished by a Hafler technique to directly output said left sound signal minus said right sound signal to said Front L channel, output said right sound signal minus said left sound signal to said Front R channel, output said left sound signal to said Rear L channel, and output said right sound signal to said Rear R channel.

10. (Original) The multi-channel surround sound expansion method as claimed in claim 9, wherein said Front L channel and Front R channel sound signals are sound signals having high-frequency components filtered out through a low-pass filtering operation.

- 11. (Original) The multi-channel surround sound expansion method as claimed in claim 10, wherein the frequency response of said low-pass filtering operation is about -30 dB at 10 KHz.
- 12. (Original) The multi-channel surround sound expansion method as claimed in claim 9, wherein said Front M channel sound signal is a sound signal whose high-frequency components are filtered out through a low-pass filtering operation.
- 13. (Original) The multi-channel surround sound expansion method as claimed in claim 12, wherein the frequency response of said low-pass filtering operation is about -30 dB at 6 KHz.
- 14. (Original) The multi-channel surround sound expansion method as claimed in claim 9, wherein said Rear L channel and Rear R channel sound signals are sound signals having low-frequency components filtered out through a high-pass filtering operation.
- 15. (Original) The multi-channel surround sound expansion method as claimed in claim 14, wherein the frequency response of said high-pass filtering operation is about -10 dB at 6 KHz.
- 16. (Original) The multi-channel surround sound expansion method as claimed in claim 1, wherein said multi-channel sound signals further include a super bass channel sound signal.

17. (Original) The multi-channel surround sound expansion method as claimed in claim 16, wherein said super base channel sound signal is obtained by using at least a low-pass filtering operation to filter out high-frequency components of said left sound signal and said right sound channel.

- 18. (Original) The multi-channel surround sound expansion method as claimed in claim 1, wherein said Front M channel sound signal is a mean of said left sound signal and said right sound signal.
- 19. (Original) The multi-channel surround sound expansion method as claimed in claim 1, wherein said multi-channel sound signals further include a Rear M channel sound signal.
- 20. (Original) The multi-channel surround sound expansion method as claimed in claim 19, wherein said Rear M channel sound signal is a mean of said Rear L channel and Rear R channel sound signals.
- 21. (Original) The multi-channel surround sound expansion method as claimed in claim 1, wherein said multi-channel sound signals further include at least a Middle L channel sound signal and at least a Middle R channel sound signal.
- 22. (Original) The multi-channel surround sound expansion method as claimed in claim 21, wherein said Middle L channel sound signal is a copy of said Rear L channel sound signal, and said Middle R channel sound signal is a copy of said Rear R channel sound signal.
- 23. (Currently Amended) The multi-channel surround sound expansion method as claimed in claim 1, wherein said first time value is between about 10 and 20 ms.

24. (Currently Amended) The multi-channel surround sound expansion method as claimed in claim 1, wherein said second time value is between about 2 and 4 ms.

- 25. (Original) The multi-channel surround sound expansion method as claimed in claim 1, wherein said sound reverberation operation is accomplished through a feedback delay networks technique.
- 26. (Original) The multi-channel surround sound expansion method as claimed in claim 25, wherein a plurality of delay queues and a queue matrix are provided in said feedback delay networks technique, a channel sound signal is input into said delay queues to generate a plurality of delay signals fed back to said delay queues via said queue matrix, and said channel sound signal is finally added to said channel to form a continually fed-back sound with reverberation.
- 27. (Original) The multi-channel surround sound expansion method as claimed in claim 26, wherein said delay signals generated by said delay queues are obtained by setting a delay constant to said delay queues.
- 28. (Original) The multi-channel surround sound expansion method as claimed in claim 26, wherein delay times generated by said delay queues are different from one another.